Unbound Notes and Drawings (1901)

This folder contains dated notes and drawings from 1901, as well as undated material possibly from the same year. Included are items by Edison regarding surveying devices, phonographs, and storage batteries, many of which contain dates, notations, or contributions by John F. Ott. There are also pages of calculations by an unidentified experimenter.

Approximately 40 percent of the documents have been selected. The material by experimenters other than Edison has not been selected, with the exception of notes by Ott that relate closely to Edison's work.

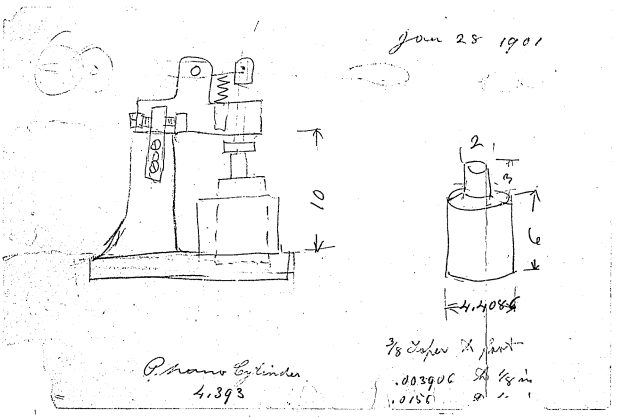
John.

This is the can that we will use
that is the bottom part.

Leyfenwath,

June 22 1901

The can without the extension


June 25 1901
10
2
5
6
4.4086
3/8 Taper per foot
.003906 per in
.0156
Pistons Cylinder
4.393

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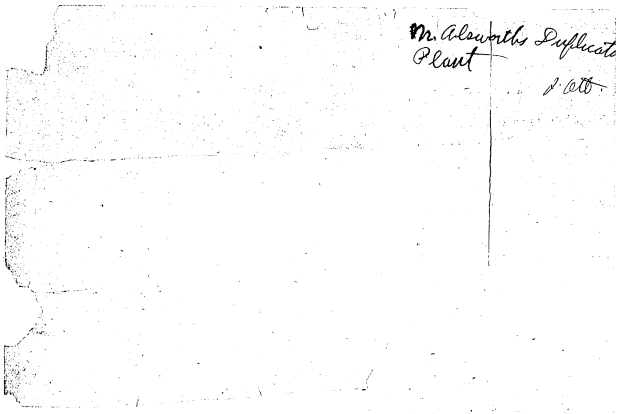


Mould 4 3/4

Cooling Jac.

4 7/8 long

4 Cooling Jackets

2 Tap Bolts

4 Shrinking

Arbors

Jan 28 1901

No 1099

One cooling Tank

Mr Ott

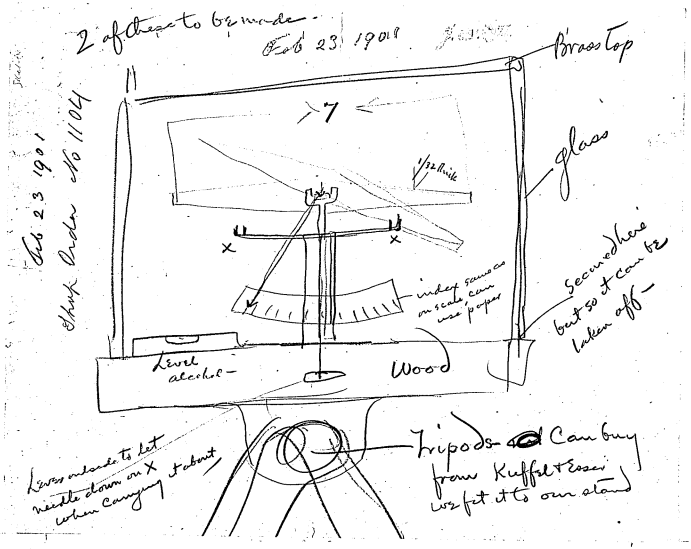
Have you any drawings of Combination shaving Machines?

Delivered to Mr Waterman two tracings of Combination shaving off Machine, Also three tracings of Small Shaving off Machine

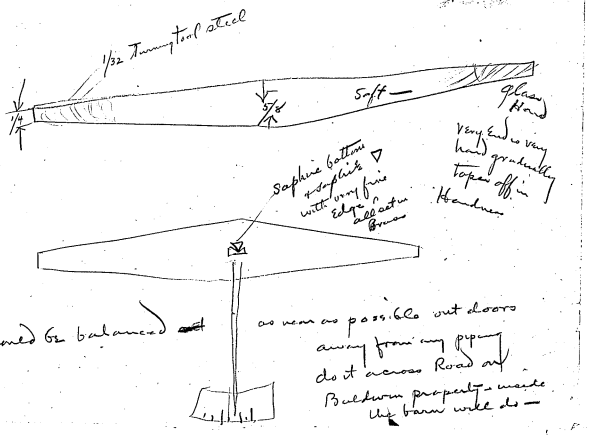
A. P. N.

Feb 12. 1901

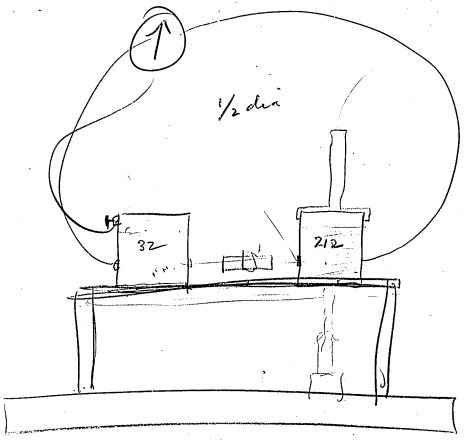
J. O. Ott

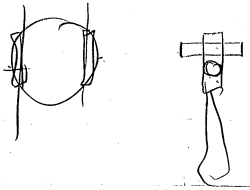

2 of these to be made.
Feb 23 1901
Brass top
glass
1/32 Rule
secured here but so it can be taken off
index scratched on scale can use paper
Level alcohol
Wood
Tripods
Can buy from Kuffel & Esser
Levers outside to let needle down on X about when carrying it about
Feb 23 1901
Short Order No 11014

Feb 23 1961


1/32 Thin tool steel
1/4
5/8
Soft
Glass Hard
Very fine very hard grade will taper off in Hardness
Saphire bottom & polished with very fine edge of an old Razor
Should be balanced
as near as possible out doors
away from any pipes
do it across Road on
Buckhorn property inside
the barn will do

1901

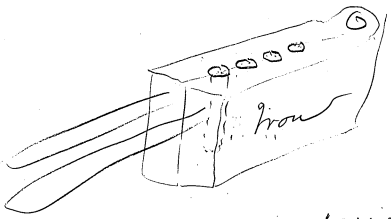




Thurm. Exp.

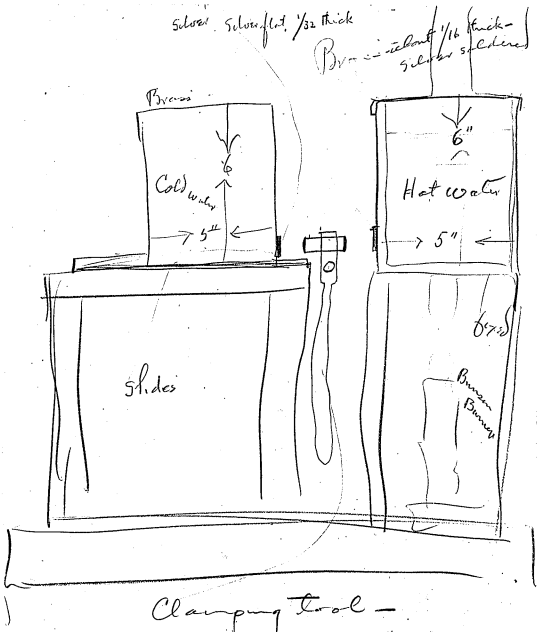
April 5 1901

4



¼ X One inch

Chicago Ill. April 5 1901



Clamping tool —

Shiuma Opp April 5 1901

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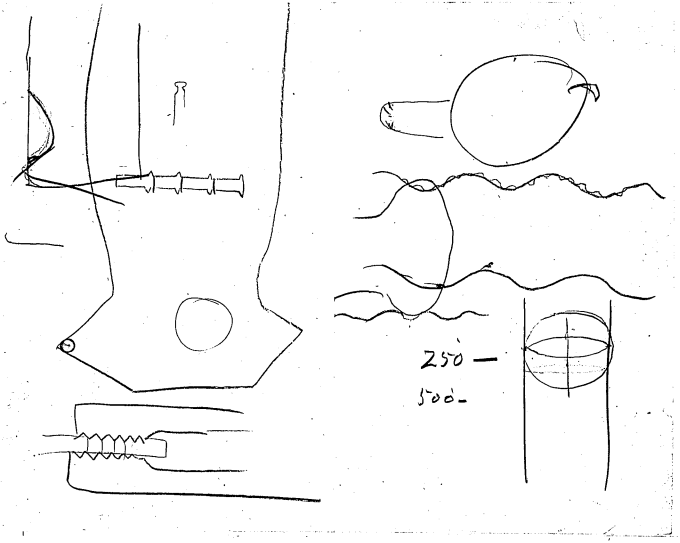
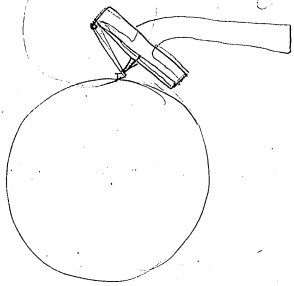


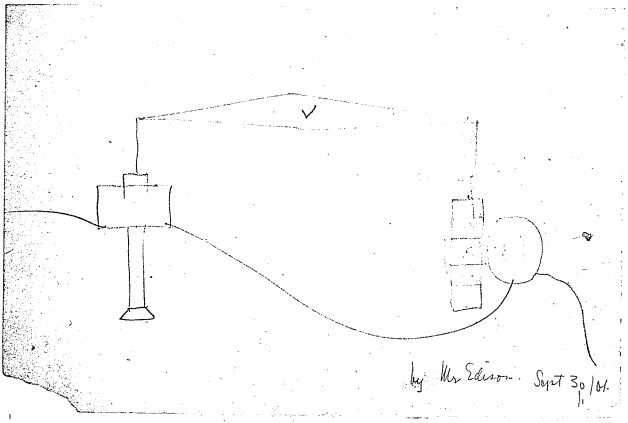
Phone.

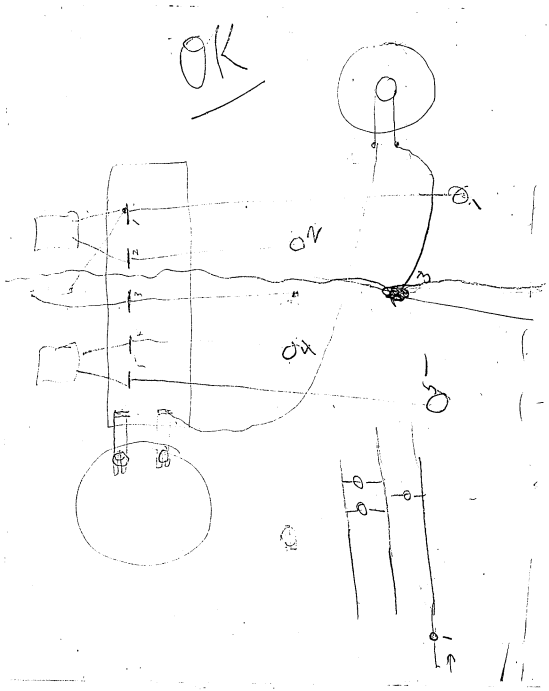
Tronicke

June 13 1921



96
15 o
480 o
96 o o (240
144 o
120 o
24
60
8
28 60
96


by Mr Edison. Sept 30/81.


OK
ON
OK

Winding of
Edison Meter

Armature 24 Div
Turns in each div 200
No 36 B. S. Gauge

Starting Coil 1000
Turns 36 B.S.

Large Coil
14 Turns
28 Turns in opposite direction
14 Turns same as first
Connect first and last
in series

Evening

Motor D run 60 rev per Minut

Worm on Motor Shaft
10 Pitch Double Thread

Worm Wheel 26 Teeth
13 ✕ 1

Friction wheel 1 3/16 in diam

Worm 32 Pitch

Worm wheel do not known

Pinion 20 Teeth 120 Pitch

Crown Gear 80 Teeth 120 Pitch

J. F. Ch.

Sept 30 1901

Armored 24 Ships

Guns in each ship 200 No 36 B.L.

Floating Guard

1000 Guns No 36 B-L. Breech-
loaders

Shunt Coils

19 Guns on first layer

28 " on second "

14 " on third

Coils first and second
in series

Wind seven in opposite direction

Join first and third in series

1 – See Sec plans about Drawbridge design

2 = See Rogers re Emplacement about putting [illegible] at throw the weldless emplacement

3 = See what Gemmer Clement knows

4 gas Examination the distribution of impurities for waste pipes –

5 = See Hess, Robertson re projections

6 See Trimble about the hose stories

7 = See John Ott about Vacuum Apparatus

8 = Look at Complete cell impression Machine

9 = Electric lighting (see if Clement & Hobby work this)

10 See if there is a Water deposit on Engine at Glen Ridge

11 See about Drawings at Glen Ridge = Walker

12 See Skinner re Hess near Replies to letters on

13 " " " Webber about Watson & Hotchkiss

14 " Simpkins what he knows about Bergman order

15 " See Coghlan with

16 " Rose Horn put in KOH

17 ~~Attached~~ New Gas Obligand make flex Compound pure Portland Asphalt & Oxide Magnesia etc for battery

18 See Randolph How much money battery to call up – how much spent =

19 = Hertz in re order for stuff at Clermont Works Compass for sight = Dynamo principle & Condenser etc

20 = See Simpkins about balances pictures for Accountants + about Bagging Machines –

21 = See Simpkins re Auto making two gauges accurately

22 See Coal House heating Engine etc –

23 See about wiring pts at 26 or Hotchkiss

24 See Rogers if we got all our tools we ordered

25 = See Walker re Jacques Colby our Elevator not delivered

26 = See Colby what must be put in at Glen Ridge

27 = See Hewitt re taking impression of debris at Q Ridge
28 = " " " " of ditch "

29 See Stephens re boat re moving brass furnace in Long bldg at Q Ridge

30 See S re what he has done about opening Rolls for rolling at Q Ridge —

31 = See Coby the VOC bldg at Q R must be provided with hood

32 Holmes + Hobbs boy Hoel worker re affidavit

33 See Rafn re what Paper wanted in re Mem Pk

34 " about Govt powers re Agricultural Implements

35 See Rafn about Curves on Pallen Battery

36 See Balentine, Dimmick + Herrington about Nickel ore

37 = Copy out all the essential points in Riddle paper for Mg.

38 = Answer Sudbury letter —

39 Send to Brooks for use in Oakland Geological Maps

40 Copy out from bellet book all Sudbury values + obtain a Nickel slater box —

41 Aylsworth test the Origan not (Riddle) Nickel sample

42 Make magnetic separations from Pyrrhotite + Chalcopyrite + partially oxidized ore —

43 - Have Aylsworth try powdered Ridgeway ore reduced to middle + Extend with Magnet —

44 = Test Walkin Millers Cylinders

45 ~~Compliment but Burnt bent~~

46 = Samples we take being done at Stewarts

~~on Ozone + blown~~ —

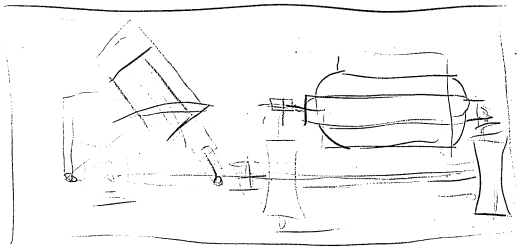
48 = What is Condition of old Chem bldg at Silvers

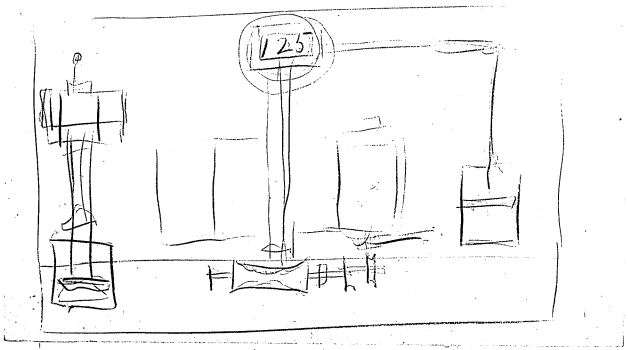
how anything been done =

49 = ~~Put in Burnt KOH~~ —

50 Opal Spit other of Drink from dropper a

wee shoss apart brick brick to soak KOH.

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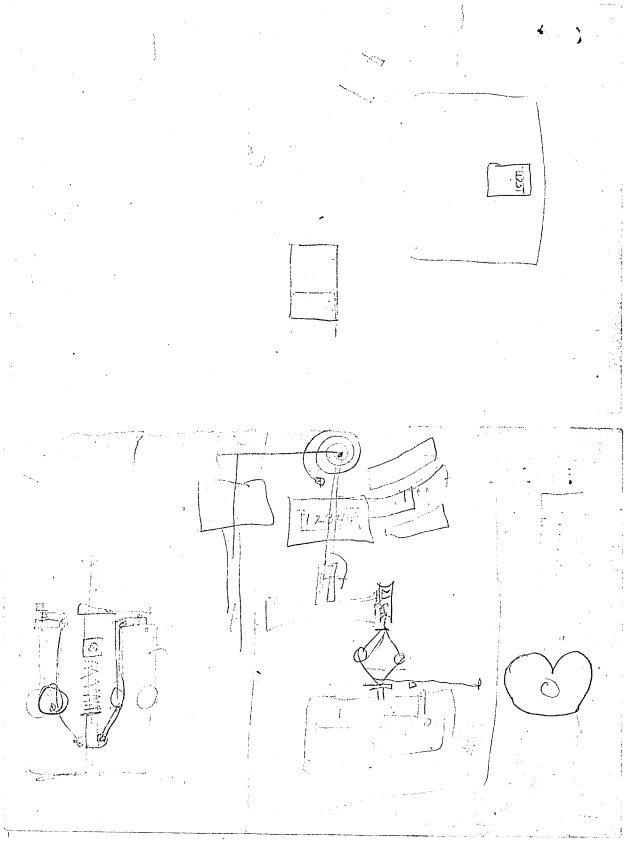

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$$\frac{V_e}{V_m} = \frac{1-\ell^2}{4\eta}$$

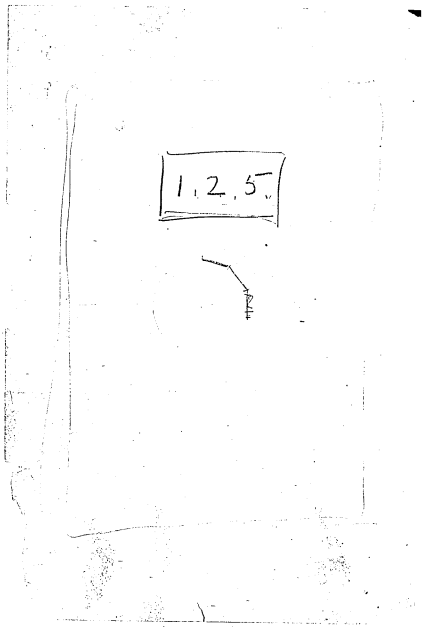
$$\frac{0.8}{2.7} = \frac{1}{3.4}$$

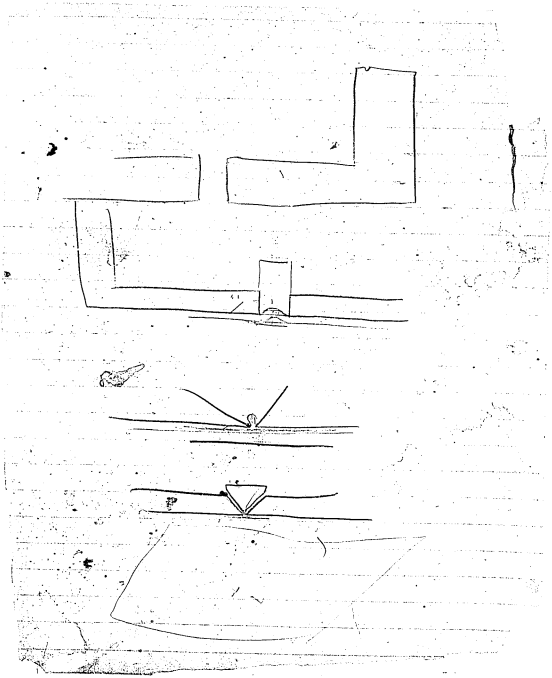
$$1-y^2 = 4\eta\ 0.7$$

$$\ell^2 + 1.2\ \eta = 1$$

$$\eta = 0.6 \Rightarrow \ell = 0.56 + 1$$

$$\eta = 0.6 \pm 1.$$


1, 2, 5



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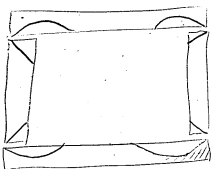

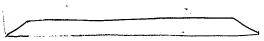

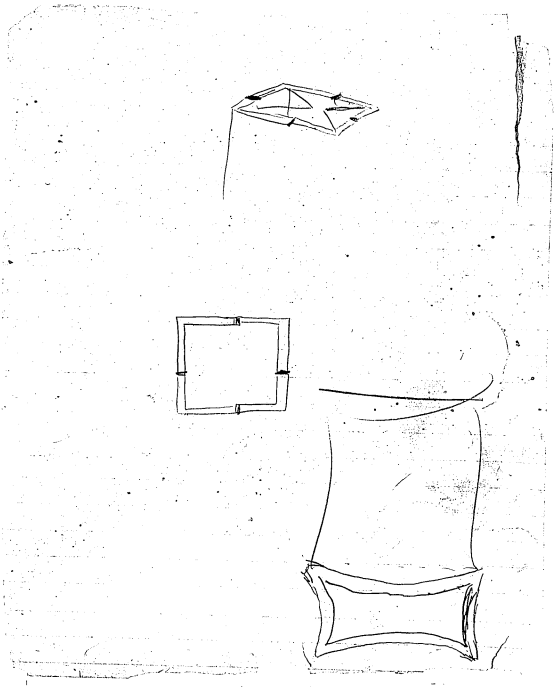

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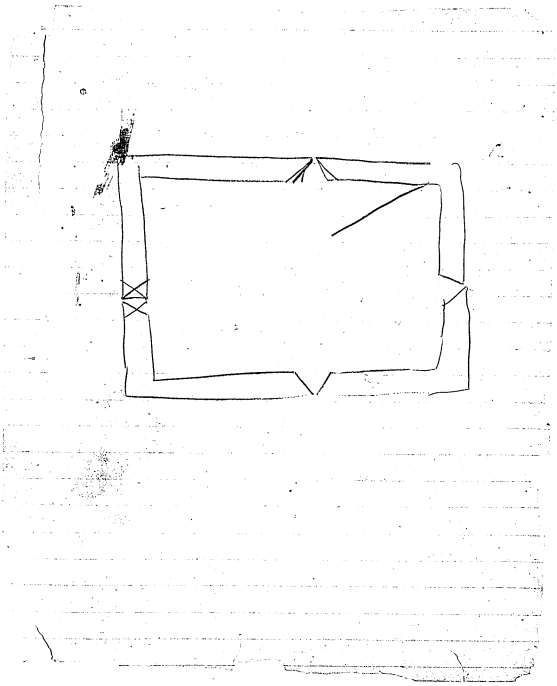

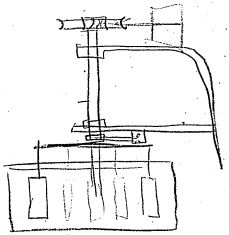

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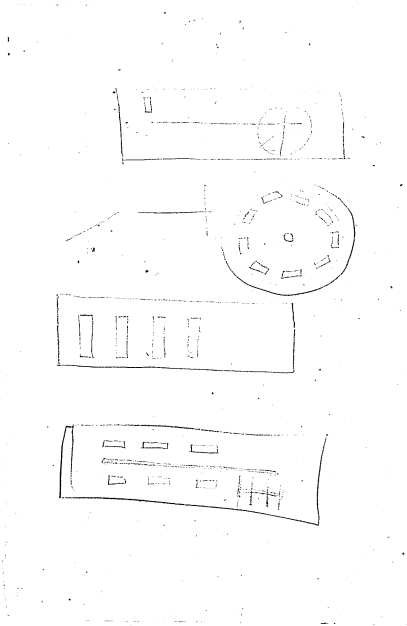

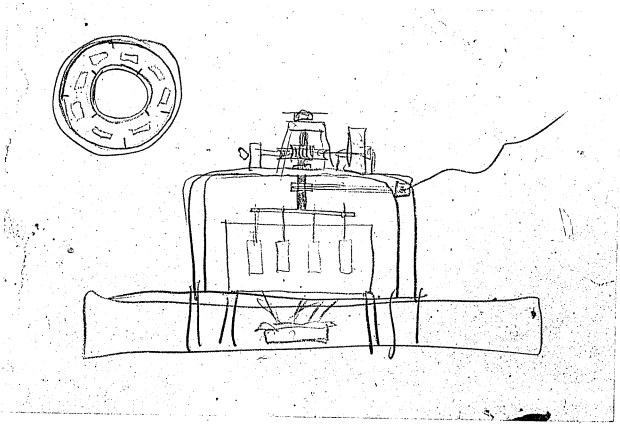

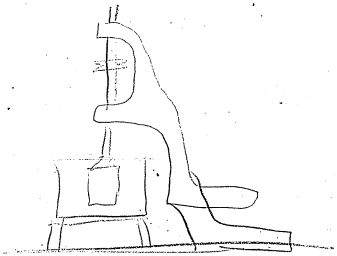

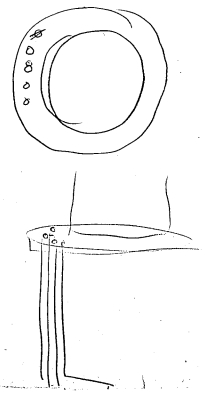

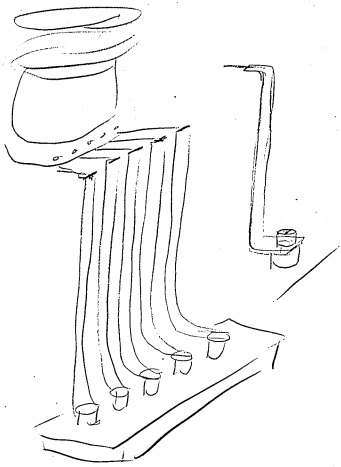

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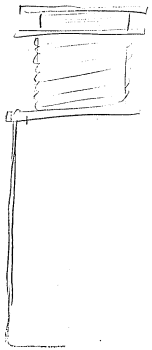
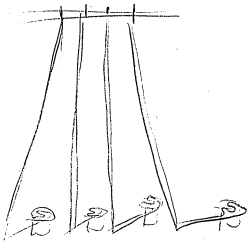
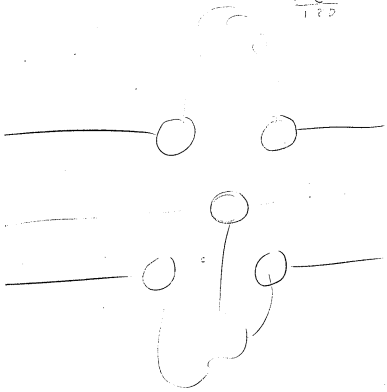
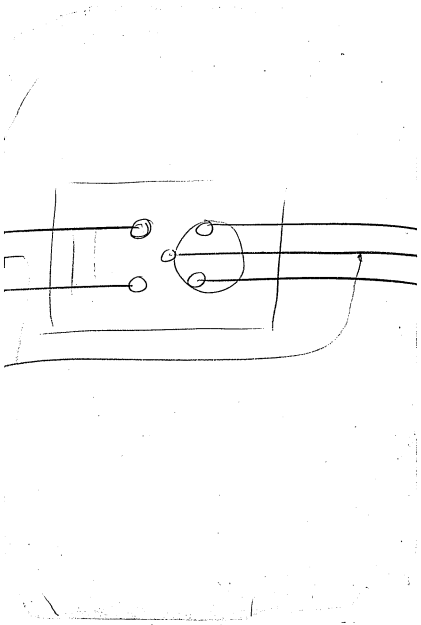
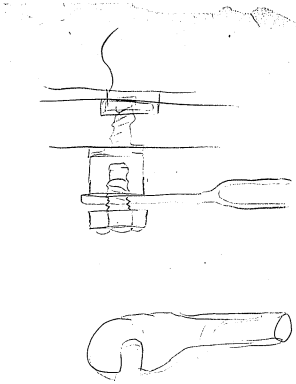










Carriage No 29. 44 Watt hours
per 1000 lbs cost to propel 1 mile
at Speed 12½ miles per hour

Draw Bar pull can be Obtained
from Wattage by multiplying
Wattage by .392 – Thus if
Wattage per 1000 lbs of load
of a No 29 of any Car Construction
is 44 draw bar pull per 1000
lbs of load is for the Vehicle
is 44 multiplied by .392
Equals 17.25 lbs Draw bar pull

Relative Draw bar pull Very good Macadam 1/16
Level asphalt 100 Fair " " 1/32
Level Macadam 100
Good Belgian Block 100 Snow about same

Chemnut = make Ferrate K ditto

" ditto Barium —

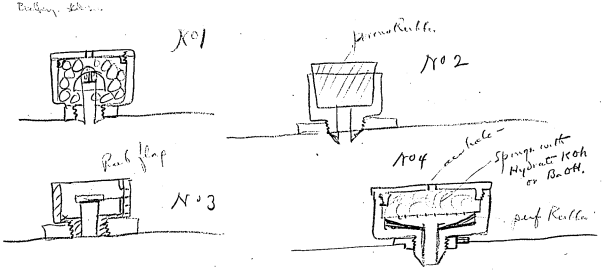
Manganous Hydrate = act on it by Sodium Hypochlorite, &c

Manganese Sulphide = make higher sulphides when lose of Metals which are higher than Zinc or Cr. Mo, Mn, W, Va etc also all the Selenides — Separately manganese Sulfide

Make Disulvosulphide Iron (Scattle) 391 Ref (Iron)

Sulphuretted Sulvosulphide of Iron Sodium p. 392

act of ferric Hydrate by Natthypochlorite = Mg


No 1
Perma Rubb.
No 2
Rock flap
No 3
No 4
Spring with
Hydrate KOH
or BaOH.
perf Rubb.

1 NH_3 Solution NiO – Try reducing by Mg-Al Zn

2 = Zinc 75 Ni 25 – Electro method get Zinc Oxide no loss Soda – Granules Zn get pure after use –

3 = Oxides hypo some of big lot of 9mm look at Micro – also use of lumps break up if so try one 7+3 –

4 Refer make another list now dull red longer time for fresh Experiments –

5 amalgamate Heat Ground Contacts KCy Hg Cy – or Nitrate Hg –

6 Look up Asylum with Brown Chillum Mill amalgam see Curve

7 = See Ott about some one help Smoke so he can make News Recorder Experiment

8 alloy Copper Ni + Electroplate method might do Better Evenchan Zinc can be plated for #1/16 per Gm – but probably Solution may let all rock nickel –

Soap-works Lubes by Electrolysis, highly sensitive
Chemical by Electrolysis 10% Solution Nat Cl and
Nitrate of the Ag_2O_3 large Anode metallic metallic
- Linster, C. Compt. Rend. 90. 653-656-

Air absorption of Ox by Turpentine which turns
it into Hydrogen peroxide is used in Mfg
Calc - Mfg Turpentine in Cambrinplate

Nigrosin Cambr Ox & reduced in alkaline Sol
without dissolving

Rosin ox & red

Indigo white to Indigo Blue - good MG

Sulphate Zinc & Sulphate Mg. Zn paste & Mg paste
Zn dep on one pencil another Zn
not decomposing Sulph
12.9.4 6.4 1 1

Try soluble forms the Anilin Dyes in KOH, NaOH
Sr OH & BaOH, & Mg — also for color changes
with Hyposulphite or reducing agts

When a plate of Zinc is immersed in a solution of the double Cyanide of Ni & K Hydrogen is evolved & metallic Nickel is deposited on the plate as a blue deposit on a cloud deposit of Color also generated

Which is Sodamide,

act on ferric Hydrate by Hypochlorite

also Perox Soda for ferric peroxide

Hydrolith Caoxide Le Maing dont make

try pyrrisulate on grid with graphite

Don't fail try magnetite Mg 6 to 200 mesh on grid also Black Hydrate on grid for Kelandr

also oxyoxide on afrequdan Dont fail

Fe grids the one that has all Sulph out + test with Zn (Kelandr)

Pyrophosphates, Ends from double soluble salts worth
Iron Zinc, Mecurous, Lead + Ag Mecuric + Chromic salts
Anode —

Picric acid produces pp in ammoniacal sol and Cop

Try Sulphate Cerulein in water deposit on
Ni oxdz Ct then use this with Fe to
get values —

Phosphite Cop

Ferric phosphate

Neutral pyrophosphates of alkalis have alkaline reaction

Methaphosphate. Cop in cold alkali

Cerous ferrous orthophos

First Volts Fe + Ni pass 20 - 30 40 50 + 60 % KOH, ~~Rapid~~
~~Change to 50 Volts~~ after cell run down
to 110 Volts on open + then leave on 1st peg
for 10 minutes or so —

precipitd ferrous orthophos oxidizes in air to
dammar blue, ferroso-ferric phosphate,
Vivianite — (Lehmann)
This bis acc with 586 Reg Try the Hedrick phosphate 364

Peroxide of Ba Sr + Ca mixed
make hydrates in Carb plate + place in
Solution peroxhydgn

Products of trays Keels Fe Sle
3 at 0 Obs I
good

See Watts 2nd Sup 687
ubt Ferric chl

10 atoms Fe_2O_3 dissolve in 1 at Ferric Chloride +
resultant is sol water if more is added
the oxychl is deposited — use latter in grad

Ferric hydrate is completely dehydrated by trying
up to 160 @ 200 Cent in saturated Sol of
Chloride Ethenum or Chl Sodium — Try

Make that mixed hydrate described p of 398 —
possibly there is some use of from Oxides
from Sulphides — There is for 3 comps
Finding it try all —
Ditto oxychlorides last pp 378 watts 4 top pp 379

probably quickest way to determine the phosphates is to use plate of antimony - Tin, Iron, Lead, Copper & make the phosphate on these surfaces in Soln of meta pyro & Orthophosphate Soda — Hypophosphite & phosphite — Then transfer to a Zinc Dichromate in Soda & take Volts, if any agree make stuff & pack in grid —

o

Ammono Manganous phosphate

Pyrophos Zinc is sol in KOH,

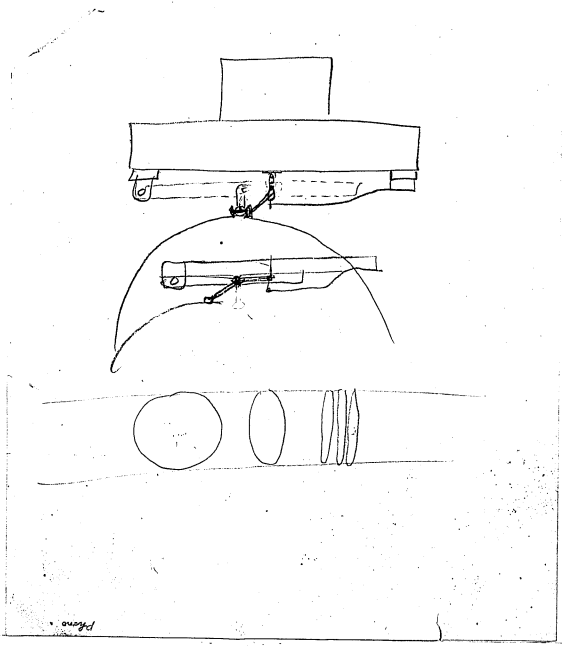
There are basic nitrates of Copper which are insoluble in Potash —

Make scales of Metal to mix with NiOx instead pbO2 by plating on a plumbago surface & stripping

Try Equipment of dotting iron with copper Varnish & plating Ni over it & then put in Sul Cop to Eat holes thro

pack in grid broken CuO plate thigh 200 mesh 7 pts graphite 3 & beat full Volts 5½

Powder some $Ni(NO_3)_2$ sulphide & ~~plate in grid~~ put in dish bottom of cell & of by ct



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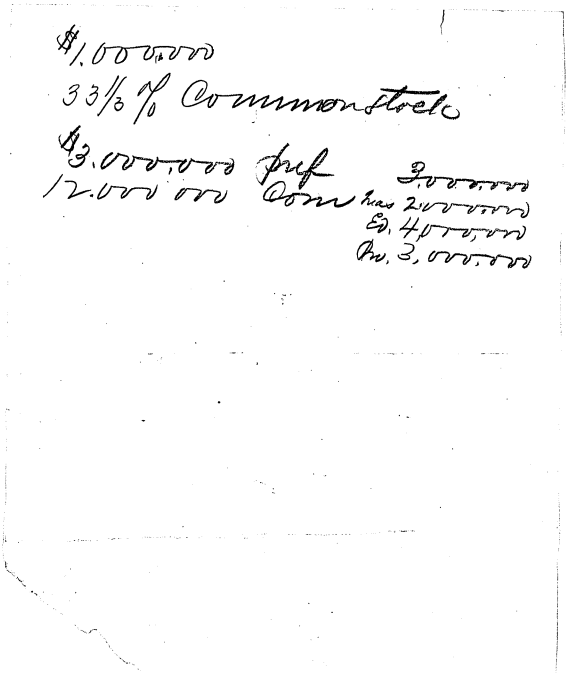

Mix tar with Phosphate Magnesia + Carbonyx —

ditto Chloride of Ammonia —

ditto Zinc Oxide —

Try some over coal dust with tar + Phos Magnesia — also without Phos Mag.

Try a Carbon plate with Copper against it for Volts &c =